

ABSTRACT

5 A metal-supported porous carbon film wherein metal
fine particles with a mean particle diameter of 0.7-20 nm
are dispersed and supported on pore surface walls, fuel
cell electrodes employing the metal-supported porous
carbon film, a membrane-electrode assembly comprising the
fuel cell electrodes bonded on both sides of a polymer
electrolyte film, and a fuel cell comprising the fuel
10 cell electrode as a constituent element. The support
structure is such that metal fine particles having a
controlled particle size are uniformly supported to allow
effective utilization of the metal-based catalyst, and
the fabrication steps are simple.